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VALID ZOOLOGICAL NAMES OF THE PORTLAND CATALOGUE

By HARALD A. REHDER

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VALID ZOOLOGICAL NAMES OF THE PORTLAND CATALOGUE

By HARALD A. REHDER
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Introduction

An outstanding patroness of the arts and sciences in eighteenth-century England was Lady Margaret Cavendish Bentinck, Duchess of Portland, wife of William, Second Duke of Portland. At Bulstrode in Buckinghamshire, magnificent summer residence of the Dukes of Portland, and in her London house in Whitehall, Lady Margaret—a widow for the last 23 years of her life—entertained gentlemen interested in her extensive collection of natural history and objets d'art. Among these visitors were Sir Joseph Banks and Daniel Solander, pupil of Linnaeus. As her own particular interest was in conchology, she received from both of these men many specimens of shells gathered on Captain Cook's voyages. Apparently Solander spent considerable time working on the conchological collection, for his manuscript on descriptions of new shells was based largely on the "Portland Museum."

When Lady Margaret died in 1785, her "Museum" was sold at auction. The task of preparing the collection for sale and compiling the sales catalogue fell to the Reverend John Lightfoot (1735–1788). For many years librarian and chaplain to the Duchess and scientif-

ically inclined with a special leaning toward botany and conchology, he was well acquainted with the collection. It is not surprising he went to considerable trouble to give names and figure references to so many of the mollusks and other invertebrates that he listed. It is interesting to note also that, although the sale of the collection was supposed to begin on April 24 of that year, the auction did not take place until a month later—a delay due probably to the time required to compile and print the catalogue.

Although the "Portland Catalogue" has been used as a reference source of scientific names almost since its publication—witness its citation by Dillwyn in 1817, Swainson in 1822, and Gray in 1824–28 (Kay, 1965, p. 13) and the use of Solander's names by such a conservative worker as G. W. Tryon in his "Manual of Conchology"—its modern use in malacological nomenclature dates from the appearance of papers by Iredale (1916) and Dall (1921). In spite of some original opposition to the resurrection of these names, the "Portland Catalogue," as Kay has stated (1965, p. 10), is now generally considered a valid source of scientific names.

That the Reverend John Lightfoot was the anonymous compiler of the "Catalogue"—and thus the author of the new names proposed therein—has recently been stated clearly by Dance (1962). The researches of Kay (1965) have confirmed a long-held view of the present writer that the authority to be cited for all new names in the "Catalogue" is the compiler and not Solander. Lightfoot used the names found in Solander's manuscript and possibly also on labels in the collection, which may explain the absence in the manuscripts of some names credited to Solander in the "Catalogue."

The names derived from Solander's manuscripts and labels were designated by Lightfoot in most instances by adding the letter "S" to the scientific name. It must be emphasized, however, that only the names were taken from the manuscripts and rarely did the compiler use a bibliographic reference to a published figure that was given by Solander. In my view, Solander cannot in any way be considered responsible for the principle condition that made the names available—i.e., publication (see Article 50 of the "International Code of Zoological Nomenclature," 2nd edition, 1964)—although he can be considered to have been the source for some of the names in the "Catalogue." Since he was not the compiler (and therefore not the author of the "Catalogue," either solely or in part), he did not validly introduce any of the names in the "Catalogue" into the literature.

Although many names first proposed in the "Portland Catalogue" are now in general use—some have been accepted for over a hundred years—others have been ignored or passed by until fairly recently. In a work that has been accepted as a valid source of scientific names,

we cannot, in my estimation, choose to use some of the validly proposed names and not use the others, unless, of course, the latter names are truly nomina dubia.

I, therefore, publish this list of names in the conviction that they have been validly proposed and should enter into the ranks of zoolog-

A

CATALOGUE

OF THE

PORTLAND MUSEUM,

LATELY THE PROPERTY OF

The Dutchess Dowager *of* Portland,

DECEASED:

Which will be SOLD by AUCTION,

BY

Mr. SKINNER *and* Co.

On MONDAY the 24th of APRIL, 1786,

AND THE

THIRTY-SEVEN following DAYS,

AT TWELVE O'CLOCK,

SUNDAYS, and the 5th of JUNE, (the Day his MAJESTY'S BIRTH-DAY is kept) excepted;

At her late DWELLING-HOUSE,

In *PRIVY-GARDEN, WHITEHALL;*

BY ORDER OF THE ACTING EXECUTRIX.

To be viewed Ten Days preceding the Sale.

CATALOGUES may now be had on the PREMISES, and of Mr. SKINNER and Co, ALDERSGATE-STREET, Price FIVE SHILLINGS, which will admit the Bearer during the Time of Exhibition and Sale.

N°52

FIGURE 1.—Title page of the "Catalogue of the Portland Museum."

ical nomenclature, to stand or fall on their own merits. Some of these may supplant long-familiar names. If, however, we are to maintain the classification of mollusks and other marine invertebrates on a firm basis, we must adhere as closely as possible to the rule of strict priority and avoid exceptions and suspensions of the Rules.

Dall (1916) and, to a lesser extent, Iredale (1921) attempted to identify the names proposed in the "Portland Catalogue," some identifications of which I comment on in the present paper. Many of the "Catalogue" names listed by Dall are nomina nuda and thus invalid. These I have omitted. Others actually were taken over from Linnaeus or Born in their original sense. In some entries Lightfoot has referred to the second volume of Martyn's "Universal Conchologist," usually dated from 1789, but without citing a figure number. It is probable that he saw the plates of this as yet unpublished volume.

Each entry in the present paper is arranged in the following order: the lot number of the "Portland Catalogue," a verbatim citation of the relevant textual material, the name to be used for the taxon (in boldface type), the principal synonyms (in italics), including the most recent ones in which the name is credited to either Solander, Humphrey, or Lightfoot, and, where necessary, my own remarks.

Lightfoot's name sometimes is enclosed in brackets to follow Recommendation 51A of the International Code of Zoological Nomenclature, which states that the name of the author of a taxon published anonymously "should be enclosed in square brackets to show the original anonymity." Where the trivial name has been transferred to another genus I have replaced the square brackets around the author's name with the required parentheses alone, to avoid the use of both square brackets and parentheses.

In all, 2 genera and 120 trivial names are considered to have been first validly proposed in the "Catalogue." The 2 genera, *Isognomon* and *Placuna*, have been in general use now for some time although usually credited to Solander.

Of the 120 trivial names, 111 pertain to mollusks, 5 to the *Cirripedia* (*Crustacea*), 2 to the *Echinodermata*, and 1 each to the *Madreporaria* (*Coelenterata*) and *Brachiopoda*.

Of these 120 names, I consider 9 to be nomina dubia, 3 junior homonyms, and 46 synonyms of earlier names. This leaves 62 available names that should be credited to Lightfoot as author. Forty-six of these have been used in recent malacological literature, credited either to Solander of Humphrey or, in a few cases, to Lightfoot. Only 16 (or 13%) of all the new names in the "Catalogue" have apparently not come into use. Six of these I have been unable to locate as accepted senior synonyms in the literature of the past 140 years and, thus, they should be considered nomina oblita. The remaining 10, in all cases but one, have been used as senior synonyms in the past 50 years and, thus, are available.

NINETEENTH DAY'S SALE.

MONDAY THE 15th OF MAY, 1786.

SHELLS, CORALS, &c.

LOT

1924 FIFTEEN cards, containing various ſpecies of Nerita, among which are Canrena, albumen, Mamilla, peloſontha, &c.

1925 Four fine Oſtreæ, viz. Eburnea, ſquamoſa, and 2 lurida, *S.—all rare*

1926 Eight fine Petrifactions, viz. 2 Strombus luctator, *Brander's Foſſ. Hanton. pl. 5. fig. 64.* an Anomia Gryphites, *L.* an Echinites from *Verona*, &c.

1927 Fourteen Bivalves of various genera, among which are 2 Tellina radiata, 2 Oſtrea maxima, *L. foſſ.* 3 Arcas, &c.

1928 Nine cards of various ſpecies of Engliſh Crabs, viz. Cancer piſum, minutus, phalangium *male and female*, Dorſettenſis; Aſtacus Bernhardus, *all deſcribed by Pennant*, and the cared Crab, *non deſcript.*

1929 A very large and fine Buccinum Galea, *L.* or tun ſhell from the *Mediterranean*

1930 Six different curious Ovaries of marinæ ſhell-fiſh, and 4 eggs of Helix ovipara, *Liſter*, 23. 21. ſome pearls, &c.

1931 Seven cards containing various ſpecies of Cardium, viz. one valve of hæmicardium, 2 odd valves of retuſum, medium, *L.* muricatum, ciliare & variegatum, *S.*

1932 Fourteen cards of different ſpecies of Needle Buccina, viz. Heſticum, ſtrigilatum, lanceatum, *S.* toroloſum, articulatum, pertuſum, caprcolus, cinercum, & fuſus, *S.*

1933 A ſmall Echinus roſaceus and 7 varieties of Echinus orbiculus, *L.—ſome rare*

1934 Six fine ſpecies of Venus, viz. Deflorata, literata, meretrix, &c.

1935 Two pair of very rare ſpecies of Voluta, viz. Sanguiſuga, *L.* and turricula, *S.—fine*

1936 Two fine varieties of Chama Gigas, *L.* or furbelowed clamp

1937 A beautiful Oſtrea nodoſa, or Duck's-foot Pecten, and Oſtrea plica, *L. both rare*

1938 Three fine varieties of Murex ramoſus, viz. the Stag's horn, and 2 others

1939 Three kinds of Pholas, *one imbedded in wood*, a ſmall rare Solen, a Mya, &c.

1940 A fine pair of Voluta calaea and another of Pepo, *S. Martyn, Vol.* III. *fig.* 768—770

1941 A pair of very fine Trochus Solaris, *L.* or Sun ſhell, from the *W. Indies—rare*

1942 Six fine ſpecimens of Trochus, viz. 2 of Granoſus from *New-Zealand, Martyn, Vol.* I. *fig.* 37. *r.* 2 maculatus, *L.* and 2 others

Various teſtaceous and other ANIMALS, VEGETABLES, &c. in SPIRITS.

1943 A fine cluſter of Lepas fignita, *S.* found in the *Britiſh Channel*, the animal Terebella, *with it's augur*, of the Teredo navalis, or ſhip-worm, and ſundry **Ovula** of Buccinum undatum, *L. in 3 bottles* 1944 A

FIGURE 2.—A sample page (87) of the "Catalogue of the Portland Museum."

The Valid Names

15 "Strombus Fusus, L. *Persicus*, or Persian Spindle, a pair, *fine*, *Lister*. 854. 12."

Tibia insulachorab Röding, 1798

Strombus Fusus L. *Persicus* [Lightfoot, 1786], p. 3.
Rostellaria curvirostris Lamarck, 1816, p. 4.

Because Lightfoot used *Persicus* as a geographic adjectival trinomial and placed it in italics, I consider this name as invalidly proposed. It should be noted that in almost all cases the geographic origin of the specimens listed is given in italics, and in those cases, relatively few

in the "Catalogue," where the scientific names are in italics, the entire name is so printed.

31 "A fine pair of Trochus Onustus, or Carrier Trochus, *rare*, *Favanne*. Tab. 12. C. 1. 2."

Xenophora conchyliophora (Born, 1780)

Trochus onustus [Lightfoot, 1786], p. 4.
Phorus onustus Reeve, 1842, p. 160.
Not *Trochus onustus* Nilsson, 1827 (=*Xenophora* sp., Creataceous, Sweden).

50 ". . . 2 Strombus tricornis, *Martin* 843. 45. *List.* 873."

Strombus tricornis [Lightfoot, 1786]

Strombus tricornis [Lightfoot, 1786], p. 5.
Strombus tricornis Fischer, 1807, p. 188.
Strombus tricornis Lamarck, 1816, p. 3.
Strombus tricornis Humphrey, 1786.—Abbott, 1960, p. 53.

89 "Voluta Nobilis, S. an extremely rare species of the Music kind, from the *E. Indies*. *List.* 799.6."

Volutocorona nobilis [Lightfoot, 1786]

Voluta nobilis [Lightfoot, 1786], p. 6.
Voluta scapha Gmelin, 1791, p. 3468.—not *Voluta scafa* Lightfoot, 1786.
Aulica nobilis Solander.—Abbott, 1962, p. 98.
Volutocorona nobilis (Solander, 1786).—Weaver, 1964, p. 6.

Troschel in 1866 had already accepted this trivial name, citing it as "*Voluta* (*Aulica*) *nobilis* (Solander)."

The group *Volutocorona* Pilsbry and Olsson, 1954, is being retained as a distinct genus, until its radular characters are known, although it appears to be very close to *Aulica* Gray, 1847.

97 "A young specimen of Serpula gigantea or great Oriental Worm Shell, with its Operculum, *very rare—Seba*, *vol.* III. *Tab.* 94."

Kuphus polythalamia (Linnaeus, 1766)

Serpula gigantea [Lightfoot, 1786], p. 6.
Septaria arenaria Lamarck, 1818, p. 437 (not *Serpula arenaria* L., 1758).
Not *Serpula gigantea* Pallas, 1766, as Dall erroneously states (1921, p. 129).

176 "Ostrea isognomon L. called Isognoma lignea by S. *very rare*, with an Oyster adhering."

Isognomon [Lightfoot, 1786]

This is the first use of the generic name *Isognoma* (or *Isognomon*). See lots 968 and 3041, wherein the now generally accepted form *Isognomon* is used. *Ostrea isognomon* L. (=*O. isognomum* L.) becomes the type of the genus by tautonymy.

187 "Three fine specimens of Tellina, viz. . . . cruentae, S. *Knorr VI.* 12. 1. *all very rare.*"

Sanguinolaria cruenta (Lightfoot, 1786)

Tellina cruentae [Lightfoot, 1786], p. 10.
Tellina operculata Gmelin, 1791, p. 3235.
Tellina semiplanata Röding, 1798, p. 186.

Abbott (1954, p. 439), following Dall (1921, p. 99), erroneously used this name for *T. sanguinolenta* Gmelin, in which he has been followed by Shikama (1964, pl. 50, f. 3).

An examination of Knorr's figure shows that the name *cruenta* should be applied to the large, more elongate and unicolored species formerly known as *S. operculata* Gmelin, inhabiting the southern shores of the Caribbean, from Nicaragua south to Brazil.

It is not the Eastern Pacific *S. bertini* Pilsbry and Lowe, as Keen (1958, p. 188) thinks possible.

See lot 1360, wherein Lightfoot spells the trivial name correctly: *cruenta.*

264 "Voluta incrassata, S. Martyn, 499, 500. . . . very rare."

Oliva incrassata (Lightfoot, 1786)

Voluta incrassata [Lightfoot, 1786], p. 13.
Oliva angulata Lamarck, 1811, p. 310.
Voluta incrassata Dillwyn, 1817, p. 516.
Oliva incrassata (Solander, 1786).—Keen, 1958, p. 420.

295 "Echinus anemonoides, or purple Anemony Echinus, *extremely rare*, and one ditto with its spines on *Favanne* 56. H.H."

Podophora atrata (Linnaeus, 1758)

Echinus anemonoides [Lightfoot, 1786], p. 14.

301 "Buccinum Iris, S. *Martyn, vol. I,* fig. 2.b. the *Epidermis of this singular species when wet is of various colors, and it is exceedingly scarce.*"

Latirus iris (Lightfoot, 1786)

Buccinum prismaticum Martyn, 1784, fig. 2 (nonbinomial).
Buccinum iris [Lightfoot, 1786], p. 14.
Murex prismaticus Gmelin, 1791, p. 3559.
Latirus prismaticus Martyn.—Tryon, 1881, p. 93.
Latirus iris Humphrey.—Kaicher, 1957 [sect. 7], pl. 8.

353 "Two fine species of Placuna, *S.* viz. placenta, and Ephippium, the Chinese Window, and Polish Saddle Shells, *both very rare.*"

Placuna [Lightfoot, 1786]

Placenta Retzius, 1788.
Placuna Bruguiere, 1792.

This is the first use of the generic name.

372 "Two fine specimens of Buccinum monodon, *S.* or Unicorn shell, from *Terra del Fuego, Martyn, vol.* I, *fig.* 10e."
Acanthina monodon (Pallas, 1774)

Buccinum monodon Pallas, 1774, p. 33.
Calcar Martyn, 1784, fig. 10 (nonbinomial).
Buccinum monodon [Lightfoot, 1786], p. 17.
Buccinum monoceros Bruguiere, 1789, p. 253.

400 "A large and fine Helix plicata, *undescribed, Favanne,* pl. 61, D. . . . *rare.*"
Pila urceus (Müeller, 1774)

Helix plicata [Lightfoot, 1786], p. 18.
Not *Helix plicata* Born, 1778.

408 "A large and fine Turbo undulatus, from *New Holland, extremely scarce, Martyn,* vol. I. 29. p."
Subninella undulata (Lightfoot, 1786)

Limax undulatus Martyn, 1784, fig. 29 (nonbinomial).
Turbo undulatus [Lightfoot, 1786], p. 18.
Turbo undulatus Gmelin. 1791, p. 3597.
Subninella undulata Solander.—Allan, 1959, pp. 68, 486.

566 "A very large Voluta ponderosa, S. or heavy Volute, with a fine mouth, *Martyn* 916."
Turbinella ponderosa (Lightfoot, 1786)

Voluta ponderosa [Lightfoot, 1786], p. 25.
Xancus pyrum Röding, 1798, p. 134 (not Linnaeus, 1758).
Turbinella rapa Lamarck, 1816, p. 7.

A critical study of large series of this species and *Xancus pyrum* (L., 1758) may show that the former is merely a subspecies of the latter (see Dodge, 1955, pp. 132–134).

601 "Two beautiful specimens of Helix Vitellus *Rum.* 22. 1. . . ."
Polymita picta (Born, 1780)

Helix vitellus [Lightfoot, 1786], p. 26.

610 "A pair of Voluta virescens, *S. Martyn,* 932. 933 from *Guinea.*"
Voluta virescens [Lightfoot, 1786]

Voluta virescens [Lightfoot, 1786], p. 26.
Plejona muta Röding, 1798, p. 60.
Voluta polyzonalis Lamarck, 1811, p. 68.
Voluta virescens Dillwyn, 1817, p. 562.
Voluta virescens Solander.—Abbott, 1954, p. 250.

611 "Voluta arausiaca, S. or Prince of Orange's Flag Music shell, from *Amboyna . . . extremely rare, Rumph.* 37. 2."
Harpulina arausiaca (Lightfoot, 1786)

Voluta arausiaca [Lightfoot, 1786], p. 26.
Voluta arausiaca Shaw, 1790, pl. 52.
Voluta vexillum Gmelin, 1791, p. 3464.
Harpulina arausaica [sic] Solander.—Shikama, 1963, pl. 81.

626 "Mya gigas, *S. List. conch.* 414, with two Gorgoniae adhering to it."

Panope glycimeris (Born, 1778)

Mya gigas [Lightfoot, 1786], p. 27.

707 "Voluta elongata, S. or Midas's ear Land Snail, a very rare terrestrial shell from *New Caledonia, Martyn, vol.* I, *fig.* 25. *n.*"

Placostylus elongatus (Lightfoot, 1786)

Limax fibratus Martyn, 1785, fig. 24 (nonbinominal).
Voluta elongata [Lightfoot, 1786], p. 30.
Bulimus bovinus Bruguiere, 1792, p. 345.
Ellobium australe Röding, 1798, p. 106.
Not *Voluta elongata* Schroeter, 1804 (=*?Aurinia* sp.); not *Voluta elongata* Swainson, 1821 (=*Alcithoe swainsoni* Marwick, 1926).

It is strange that both Franc (1957, p. 152) and Solem (1961, p. 477) use Martyn's name, even though in 1957 the "Universal Conchologist" was officially rejected for nomenclatorial purposes. Neither do they list the three subsequent, earliest names, those of Lightfoot, Bruguiere, and Röding. Since the name *fibratus* is unavailable, the adoption of Lightfoot's name should prove acceptable.

708 "A fine specime of Voluta amphora, *S.* or clouded Persian Crown, from *China, rare . . . Martyn,* 780."

Cymbium (Melo) amphora (Lightfoot, 1786)

Voluta amphora [Lightfoot, 1786], p. 30.
Cymbium flammeum Röding, 1798, p. 151.
Melo diadema Lamarck, 1811, p. 57.
Cymbium (Cymbium) amphorus (Solander).—Shikama, 1963, pl. 85.

915 "Helix Otis *an extremely rare species,* figured by *Favanne, tab.* 63. *fig.*11."

Lampadion otis (Lightfoot, 1786)

Helix otis [Lightfoot, 1786], p. 38.
Helix labyrinthus Lamarck, 1792, p. 352.
Lampadion labyrinthus Röding, 1798, p. 78.
Helix (Labyrinthus) otis Soldr. [sic], Beck, 1837.
Pleurodonte (Labyrinthus) otis (Solander).—Pilsbry, 1910, p. 504

The generic name *Labyrinthus* Beck, 1837, must yield to the earlier name *Lampadion* Röding, 1798. Winckworth (1945, p. 141) lists as type *Lampadion labyrinthus* Röding, citing Gray (1847, p. 173) as authority for this type designation. Although Gray gave *Helix otis* as the type of the genus, which was not one of the originally included species, Winckworth's action is valid ("International Code of Zoological Nomenclature;" art. 69(a)(iv)). Wurtz (1955, pp. 106–107), apparently overlooking Winckworth's statement, designated as type the same species of Röding, *Lampadion labyrinthus*, fixing this name on the figure in Favanne (1780), cited by Röding. Wurtz then goes

on to say that this figure represents an unrecognizable species and thus disposes of the name *Lampadion*. Wurtz was unaware of the fact that Röding cited the wrong figure in Favanne for his species. Röding apparently meant to cite F 11 on plate 63 but referred instead to "fig. 2," possibly reading the 11 as a Roman II. That Röding did make an erroneous citation for the species to which he gave the popular name "Das Labyrinth," is proven by the fact that Favanne, in his own later anonymous work (1784, p. 6), cites pl. 63, F 11, of his "Conchylogie" for this species, "Le Labyrinthe."

968 "Three varieties of Isognomon perna S. (Ostrea, L.) enveloped with Sponge, and another curious species of the same genus."

Isognomon

Here Isognomon is used, as it is later (lot 3041) with the same species: *Ostrea perna* L. The type of the genus is, however, *Ostrea isognomum* by tautonymy (see lot 176).

969 "Two fine species of Voluta, viz. Melo, *Martyn, vol.* III. 772, 773 . . . ."

Cymbium (Melo) melo (Lightfoot, 1786)

Voluta melo [Lightfoot, 1786], p. 41.
Voluta anguria Lightfoot, 1786, p. 64.
Voluta indica Gmelin, 1791, p. 3467.
Cymbium maculatum Röding, 1798, p. 152.
Cymbium melo Röding, 1798, p. 152 (in part).
Voluta melo 'Soland.—Lamarck, 1811, p. 59.
Melo melo Solander.—Abbott, 1962, p. 102.

969 " . . . and Scafa b. S. Adans. *Seneg.* 3. 2."

Cymbium cymbium (Linnaeus, 1785)

Voluta scafa [Lightfoot, 1786], p. 41.

Adanson's figure is cited by Lightfoot for Solander's "variety b" of his *Voluta scafa*, which is validated in lot 3039 by a reference to a figure in Martini. Both of these figures represent *Voluta cymbium* Linnaeus.

990 "Two fine Patella Mytiliformis, *Humphrey's Conch. pl.* III. *fig.* 9 from *Falkland's Islands* . . . ."

Nacella mytilina (Helbling, 1779)

Patella mytiliformis [Lightfoot, 1786], p. 42.
Patella mytilina Gmelin, 1791, p. 3698.
Not *Patella mytiliformis* Gmelin, 1791 (=*Crepidula* sp.).

1001 "Two fine specimens of Arca fusca, *S. Gualt.* 87. G. *one of them affixed to a pinna.*"

Nomen dubium (figure indeterminable)

Not *Arca fusca* Bruguiere, 1789 (=*Barbatia amygdalumtostum* (Röding, 1798).

Solander's name was assigned by earlier authors to various species. Donovan (1803, p. 158) gave Solander's name to specimens he believed to be what is now called *Arca imbricata* Bruguiere. In this he was followed by Montagu (1808, p. 51), who assigned certain British specimens to this species, obviously confusing *Arca tetragona* Poli with *imbricata*, since he, like Donovan, cites Lister's figure (1732, pl. 367, fig. 207) of *imbricata* for *Arca fusca*. Dillwyn (1817, p. 227) actually places *A. fusca* Solander (mss.) in the synonymy of *Arca imbricata* Bruguiere, in which he is followed by Iredale (1961, p. 92). Lamy (1907, p. 41), on the other hand, places the "Portland Catalogue" name in the synonymy of *A. tetragona* Poli, 1795, and Dall (1921, p. 98) equates the species with *fusca* Bruguiere, apparently on the sole and uncritical basis of the similar name. An examination of the figure in Gualtieri, the only reference cited by both Solander and Lightfoot (Kay, 1965, p. 15) leaves us in doubt as to exactly what species is represented. The three figures are rather stylized and could represent any of several species of *Arca*. For this reason I feel that I am justified in regarding this name as a doubtful one.

1005 "Five species of Solen . . . pallidus, *S.* (*List. conch. t.* 412 *inferior*) . . . ."

Nomen dubium (figure indeterminable)

Dillwyn (1823, p. 22) says that Lister's figure represents *Solen truncatus* Wood, 1815, but this must be an error, for there is no resemblance between the figures of Wood and Lister.

1005 "Solen . . . plebeius, *S.* (*Lister*, 421. f. 265)."

Tagelus plebeius (Lightfoot, 1786)

Solen plebeius [Lightfoot, 1786], p. 42.
Solen gibbus Spengler, 1794, p. 104.
Solen plebeius 'Solander.'—Dillwyn, 1823, p. 22.
Tagelus plebeius Solander.—Abbott, 1954, p. 440.

1046 "A pair of fine Conus Augur, *S.* or dotted Cone, *Knorr.* VI. *tab.* 13. *fig.* 6."

Conus augur [Lightfoot, 1786]

Conus augur [Lightfoot, 1786], p. 44.
Conus augur Hwass, 1792, p. 685.
Conus augur Solander.—Tomlin, 1937, p. 216.

1055 "Argonauta navicula, Rum. 18. 4 . . . ."

Nomen dubium

This may be the same as *Argonauta gondola* Dillwyn, 1817, but the figure in Rumphius is too crude to identify with certainty the species intended.

1055 " . . . and hians, *S. ibid* 18. B. *both rare.*"
Argonauta hians [Lightfoot, 1786]
Argonauta hians [Lightfoot, 1786], p. 44.
Argonauta hians Dillwyn, 1817, p. 334.
Argonauta hians Solander.—Tryon, 1879, p. 136.

1206 "Two Cypraea pantherina, S. List. 681. 28 . . . ."
Cypraea pantherina [Lightfoot, 1786]
Cypraea pantherina [Lightfoot, 1786], p. 50
Cypraea vinosa Gmelin, 1791, p. 3421.
Cypraea pantherina Solander.—Schilder, 1939, p. 185.

This and the previous species, with Solander given as the author of each, have been in general use for a long time.

1240 "Two scarce varieties of Trochus alveolatus, or Beehive Snail, List. 62. 60 . . . ."
Sagda epistylium (Müller, 1774)
Trochus alveolatus [Lightfoot, 1786], p. 52.

1242 "Four varieties of Ostrea perna, *L.* (Isognomon, S.) . . . ."
Isognomon [Lightfoot, 1786]
See lot 968.

1266 "Three fine species of Balanus . . . Pyramidalis, *S. Ellis, fig.* 9."
Balanus tintinnabulum Linnaeus, 1758
Balanus pyramidalis [Lightfoot, 1786], p. 53.

It seems certain that the above reference refers to the plate illustrating Ellis' paper on barnacles published in the "Philosophical Transactions" (1758, vol. 50, part 2, pp. 845–855, pl. 34).

1301 "Two very large specimens of Patella fungoides or Mushroom limpet, from the *Cape of Good Hope. Humphrey's Conch.* pl. IV. *fig.* 16."
Patella (Scutellastra) barbara Linnaeus, 1758
Patella fungoides [Lightfoot, 1786], p. 55.
Not *Patella fungoides* Röding, 1798 (=*Acmaea jamaicensis* Gmelin, 1791).

1315 "Four fine specimens of Placuna, S. (Anomia, L.) viz. Placenta and Ephippium, both from *China*, and *rare.*"
Placuna [Lightfoot, 1786]
See lot 353.

1358 "A large and fine Cardium robustum, *S.* from Florida, *very scarce . . . Lister*, 328. 165."
Dinocardium robustum [Lightfoot, 1786]
Cardium robustum [Lightfoot, 1786], p. 58.
Cardium magnum Born, 1778, p. 34 (not Linné, 1758).
Cardium ventricosum Bruguiere, 1789, p. 228.
Dinocardium robustum Solander.—Abbott, 1954, p. 401.

1359 "Three fine and rare species of Patella, viz. two of Mytiliformis, *Humphrey's Conchology*, 3. 9 . . . ."
Nacella mytilina (Helbling, 1779)
See lot 990.

1360 "Four curious and uncommon species of Tellina . . . . Cruenta, *S. Knorr* VI. 12. 1."
Sanguinolaria cruenta (Lightfoot, 1786)
See lot 187.
It should be noted that Lightfoot gives here the correct spelling for this specific name.

1448 "Voluta . . . Anguria, S. or great brown African Melon, *Vol. Martyn* III. 767."
Cymbium (Melo) melo (Lightfoot, 1786)
The figure cited for this species represents the adult stage of the shell on which *melo* is based.
See lot 969.

1455 "Buccinum Iris, *S. Martyn vol.* I. *fig.* 2. b. very fine and extremely scarce."
Latirus iris (Lightfoot, 1786)
See lot 301.

1479 "A pair of Murex elongatus, a nondescript species, *extremely scarce. Favanne pl.* 79. H."
Pterynotus (Marchia) elongatus (Lightfoot 1786)
Murex elongatus [Lightfoot, 1786], p. 65.
Murex clavus Kiener, 1841, p. 111 (not Gmelin, 1791).
Murex (Marchia) elongatus (Solander).—Kira, 1959, p. 61.
Not *Murex elongatus* Lamarck, 1816 (=*Chicoreus asianus* Kuroda, 1942).

1501 "—Conus quercinus *S. Martyn*, Vol. II. 657. . . ."
Conus quercinus [Lightfoot, 1786], p. 67.
Conus quercinus Hwass, 1792, p. 681.
Conus quercinus Solander.—Tomlin, 1937, p. 300.

1560 "*Mytilus Castaneus S. List.* 1055. 9. extremely scarce."
Modiolus vagina Lamarck 1819
Mytilus castaneus [Lightfoot, 1786], p. 69 [a nomen oblitum].
Modiola vagina Lamarck, 1819, p. 112.
Modiola castanea Gray, 1825, p. 138.
Mytilus castaneus Solander.—Dillwyn, 1823, p. 47.
Modiolus vagina Lamarck; Lamy, 1937, p. 329.
Not *Modiola castanea* Say, 1822 (=*Lioberus castaneus* Say, 1822).

Dall (1921 p. 128) equates this name with *Elliptio complanatus* (Lightfoot) because in copying Lightfoot's reference to Lister, he changed "1055,9" to "154,9."

1601 "*An extremely fine pair of a species of perforated Patella*, the only two that are known, named *Macroschisma, Humphrey's Conch. Plate* 7. *fig.* 3. 3."

Nomen dubium

Not *Patella macroschisma* Holten, 1802, nor Dillwyn, 1817 (= *Macroschisma maxima* A. Ad., 1850).

An examination of the figures in DaCosta's "Conchology or Natural History of Shells" [for an explanation of the authorship of this work, see the "Catalogue of the Library of the British Museum (Natural History)," 1922, vol. 6, p. 218] shows a species of the genus *Macroschisma* with a strongly sinuate posterior end. At first I felt that Lightfoot's name should replace *Dolichoschisma munita* Iredale (1940, p. 431) restricted to Western Australia (Cotton, 1959, p. 79) since this is the only species known to me with such a sinuate posterior end.

Because, however, this part of Australia was not scientifically explored until Baudin's expeditions at the beginning of the nineteenth century, it seems unlikely that specimens from these coasts could have reached London in the 1770s. As these figures are unaccompanied by any textual material that might furnish us with a clue, I am led to the conclusion that either an abnormal specimen was figured or that the drawing is a poor and misleading one. For this reason I feel this name should be regarded as a doubtful one.

1620 "Three rare species of Conus in pairs . . . Leoninus, *ibid. Knorr* III. 12. 5" . . . ."

Conus striatus Linnaeus, 1758

Conus leoninus [Lightfoot, 1786], p. 72.

See Kohn, 1963, pp. 161–162.

1705 "Four cards of rare species of Voluta, viz. . . . filosa, *S. Martyn, vol.* I. *fig.* 22. 1."

Mitra (Cancilla) filaris (Linnaeus, 1771)

Voluta filosa Born, 1778, p. 212.

Voluta filosa [Lightfoot, 1786], p. 76.

1709 "Patella Calyptra, *vol.* I. *Martyn, fig.* 18, k . . . ."

Nomen dubium

This figure seems to resemble most nearly a specifically indeterminable specimen of *Capulus* which has assumed the nodulose sculpture of the shell that formed its substratum.

1711 "Voluta . . . angulata, *S. Martyn, vol.* IV, 1325."

Turbinella angulata (Lightfoot, 1786)

Voluta angulata [Lightfoot, 1786], p. 76.

Voluta scolymus Gmelin, 1791, p. 3553.

Xancus angulatus Solander.—Abbott, 1950, p. 204.

Not *Voluta angulata* Swainson, 1821 = *Zidona dufresnei* (Donovan), 1823).

I have elsewhere (Rehder, 1967, in press) discussed at some length the unfortunate official restitution of *Turbinella* Lamarck 1799 over *Xancus* Röding, 1798. For the sake of stability and to prevent nomenclatorial anarchy, however, I follow the rulings of the International Commission of Zoological Nomenclature even though I may not agree with some of these decisions.

1714 "A fine pair of Conus araneosus, *S.* or Spider's Web Cones, from *China . . . rare, Martyn, vol.* II. 676."
Conus araneosus [Lightfoot, 1786]
Conus araneosus [Lightfoot, 1786], p. 76.
Conus arachnoideus Gmelin, 1791, p. 3388.
Conus araneosus Solander.—Tomlin, 1937, p. 213.

1718 "*A large and fine, and 2 small specimens of Patella Unguis, L. (Mytilus Lingua, or green Duck's-Bill Limpet, S.) Humphrey's Conchology, Pl.* 2. *fig.* 2. *from Amboyna . . . extremely scarce.*"
Lingula lingua (Lightfoot, 1786)
Mytilus lingua [Lightfoot, 1786], p. 77.
Pharetra monoculoides Röding, 1798, p. 159.
Lingula anatina Lamarck, 1801, p. 141.
Mytilus lingua Dillwyn, 1817, p. 322.
Lingula unguis Linnaeus.—Dall, 1920, p. 262 (not *Patella unguis* Linnaeus, 1758).
Lingula lingua (Solander).—Uchinomi, 1956, p. 35.

The use of Solander's name, as initiated by Uchinomi, in place of *L. anatina* Lamarck, is made more acceptable by the knowledge that Lamarck's name would have been otherwise replaced by *monoculoides* Röding, 1798.

Later (see lot 3717) Lightfoot lists the same shell as *Patella unguis* L., a reminder of the long-standing but erroneous application of Linnaeus' name to this species of *Lingula*.

1873 "A neat small pair of Voluta Ancilla, S. from the *Straits of Magellan, very rare, D'Avila's Catalogue, vol.* I. *pl.* 8. *fig.* 5."
Adelomelon ancilla (Lightfoot, 1786)
Voluta ancilla [Lightfoot, 1786], p. 84.
Voluta spectabilis Gmelin, 1791, p. 3468.
Voluta ancilla Lamarck, 1811, p. 69.
Adelomelon ancilla Solander.—Clench and Turner, 1964, p. 152.

1914 "A fine and large variety of Trochus Solaris, *S.* from *New Zealand, very rare . . . Martyn, vol.* I. *fig.* 30. 9."
Astraea imperialis (Gmelin, 1791)
Trochus solaris [Lightfoot, 1786], p. 86.
Not *Trochus solaris* Linnaeus, 1766.

1930 "— 4 eggs of Helix ovipara, *Lister*, 23. 21."
Strophocheilus oblongus (Muller, 1774)
Helix ovipara [Lightfoot, 1786], p. 87.

1940 "A fine pair of Voluta . . . Pepo, *S. Martyn, vol.* III. *fig.* 768–770."

Cymbium pepo (Lightfoot, 1786)

Voluta pepo [Lightfoot, 1786], p. 87.
Voluta neptuni Gmelin, 1791, p. 3467.
Voluta navicula Gmelin, 1791, p. 3467.
Cymbium (*Cymba*) *pepo* Solander.—Abbott, 1962, p. 103.

1942 ". . . Trochus . . . granosus from *New Zealand, Martyn,* vol. I. *fig.* 37. r. 2 . . . ."

Modelia granosa (Martyn, 1784)

Trochus granosus [Lightfoot, 1786], p. 87.
Turbo granosus Holten, 1802, p. 69.
Turbo rubicundus Reeve, 1842, p. 168.
Not *Trochus granosus* Lam., 1822 (= *T. ochroleucus* Gmelin, 1791)

Martyn's name, although appearing in a nonbinomial work, was validated in 1957 by the International Commission of Zoological Nomenclature under its Plenary Powers (Opinion 479).

1947 ". . . 2 of Lepas vittata, *S. Seba* IV. *tab.* 16. *no.* 5. *middle figure* . . . ."

Conchoderma virgata (Spengler, 1790)

Lepas vittata [Lightfoot, 1786], p. 88 [nomen oblitum].
Lepas virgata Spengler, 1790, p. 207.
Lepas vittata Wood, 1815, p. 69.
Cineras vittata Leach, 1824, p. 170.
Conchoderma virgata (Spengler).—Pilsbry, 1907, p. 99.

The "IV" in the Seba reference is an error for "III". Wood cites Solander's manuscript as the source for his use of this name, which was used also by certain later authors, among them Brown (1827, pl. 5, fig. 16). Darwin, (1851, p. 146) used Spengler's name *virgata*, a designation that has been followed by all subsequent workers.

1960 ". . . a fine Buccinum pustulosum, *S. Rum.* 49. B. *rare.*"

Argobuccinum pustulosum (Lightfoot, 1786)

Buccinum pustulosum [Lightfoot, 1786], p. 88.
Murex argus Gmelin, 1791, p. 3547.
Buccinum pustulosum S.—Dall, 1921, p. 125.

The figure given by Rumphius, which is the first reference cited by Gmelin for his *Murex argus*, represents the form with the markedly ocellated bands, typical of the South African form. Lightfoot's earlier name must, therefore, replace that of Gmelin.

1963 ". . . Balanus, *S.* (Lepas *S.*) . . . ponderosus, *S. Lister.* 442. 284."

Tetraclita squamosa stalactifera Lamarck

Balanus ponderosus [Lightfoot, 1786], p. 89 [nomen oblitum].
Balanus stalactiferus Lamarck, 1818, p. 394.
Tetraclita squamosa stalactifera Lamarck.—Pilsbry, 1916, p. 254.

The form, sculpture, and locality cited under Lister's figure seem to point to this tropical Western Atlantic barnacle, but because Lightfoot's name has never been used for this subspecies, it should be considered a nomen oblitum.

2116 "A large and a small specimen of Voluta incompta, *S.* from the *South Seas, extremely scarce . . . Martyn, vol. fig.* 19. *1.*"

Mitra terebralis Lamarck, 1811

Voluta incompta [Lightfoot], 1786, p. 96 [nomen oblitum].
Voluta tesselata Martyn, 1784 (nonbinominal).
Mitra terebralis Lamarck, 1811, p. 201.

2120 "A very fine specimen of Argonauta nodosa, *S.* or tuberculated Paper Nautilus, from the *Cape of Good Hope, rare—Rum.* 18.1."

Argonauta nodosa [Lightfoot, 1786]

Argonauta nodosa [Lightfoot, 1786], p. 96.
Argonauta tuberculata Röding, 1798, p. 71.
Argonauta tuberculata Shaw, 1812, pl. 995.
Argonauta tuberculosa Schumacher, 1817, p. 260.
Argonauta nodosa Solander.—Tryon, 1879, p. 140.

2122 "A small but fine specimen of Voluta Cithara, *S.* or painted Aethiopian Crown, from *Japan, very rare . . . Seba Mus. Vol.* 3. *t.* 65. *f.* 1. 2."

Cymbium (Melo) amphora (Lightfoot, 1786)

Voluta cithara [Lightfoot], 1786, p. 96.
Voluta armata Lamarck, 1811, p. 57.
Not *Voluta cithara* Lamarck, 1803 =*Athleta* (*Neoathleta*) *citharoedus* Holten, 1802).

I follow Weaver (1964, p. 2) in considering this long-spined form to be a synonym of *amphora* Lightfoot (*diadema* Lamarck).

2132 "A very perfect and finely colored specimen of Chama Lazarus, L. var. *a* pannosus, *S.* Rum. 483 . . . very rare."

Chama lazarus Linnaeus, 1758

Chama lazarus pannosus [Lightfoot, 1786], p. 96.

The figure in Rumphius depicts merely a variant of the common *C. lazarus*.

2148 ". . . two Buccinum testudo, *S. Seba* III. 70. *fig.* 2, 3, and 4. of the *Bucc. Harpa* L."

Nomen dubium

Not *Harpa testudo* Donovan, 1822 (=*H. ventricosa* Lamarck 1816).

The figures referred to by Lightfoot in the "Catalogue" are the last three figures (unnumbered) in the third row from the top on plate LXX (figure 1 of *Harpa* would be the second figure from the right in the second row). Since these three figures represent three different

species of *Harpa* (*articularis* Lamarck, 1822; *major* Röding, 1798; *ligata* Menke, 1828, respectively), I suggest that this name be considered a nomen dubium, since we do not know to what species Lightfoot intended his name to be applied. Donovan later applied the name *H. testudo* to still another species (*Harpa ventricosa* Lamarck, 1816).

Dall (1921, p. 98), when he identified Solander's name with *Cassis inflata* Shaw, 1790, based his determination on the numbered figures on Seba's plate, ignoring the last four words of the cited reference.

2150 "Venus Punctata, *S. Rum.* 43. G . . . ."
Meretrix meretrix (Linnaeus, 1758)
Venus punctata [Lightfoot, 1786], p. 98.
Not *Venus punctata* Linnaeus, 1758.

2158 "A fine Arca nodulosa, S. or studded Ark, Gualt. 87. E . . . ."
Anadara granosa (Linnaeus, 1758)
Arca nodulosa [Lightfoot, 1786], p. 98.
Not *Arca nodulosa* Müller, 1776 (=*Acar scabra* (Poli, 1795), fide Lamy, 1907, p. 95).

2190 "Two curious and rare species of Mya, viz. Complanata, *List.* 150. 5. and . . . ."
Elliptio complanatus (Lightfoot, 1786).
Mya complanata [Lightfoot, 1786], p. 100.
Unio violaceus Spengler, 1793, p. 55.
Mya complanata Dillwyn, 1817, p. 51.
Elliptio complanatus (Solander).—Clark and Berg, 1959, p. 21.

2194 "Two very large and fine species of Arca, viz. Nodulosa from *China*, Gualt. 87. E. and . . . ."
Anadara granosa (Linnaeus, 1758)
See lot 2158.

2213 "A fine specimen of Mya Gigas, *S.* from the *Mediterranean*. . . . . *List.* 414. 258."
Panope glycymeris (Born, 1778)
See lot 626.

2216 "A very fine cluster of Lepas Cornu Copiae, *S.* D'Argenville, 26. *D.* . . . *rare.*"
Mitella cornucopiae (Lightfoot, 1786).
Lepas cornucopiae [Lightfoot, 1786], p. 101.
Lepas pollicipes Gmelin, 1791, p. 3213.
Pollicipes cornucopia Leach, 1824, p. 171.
Pollicipes cornucopia: Darwin, 1851, p. 298.
Pollicipes cornucopia: Gruvel, 1902, p. 223.
Mitella pollicipes: Pilsbry, 1907, p. 5.

As will be seen by the above synonymy, the trivial name *cornucopiae* has been used fairly recently by some authors. Dall (1921, p. 127) had already called attention to the fact that this name had precedence over Gmelin's *pollicipes*.

2220 "A fine Trochus Annulatus, or purple-edged Trochus, *Martyn*, Vol. I. fig. 33. r. . . . from *K. George's Sound* on the *N.W. Coast of America* . . . rare."

Calliostoma annulatum (Lightfoot, 1786)

Trochus annulatus [Lightfoot, 1786], p. 101.
Trochus annulatus Martyn, 1784 (nonbinomial).
Trochus virgineus Holten, 1802, p. 67.
Calliostoma annulatum Solander.—Abbott, 1954, p. 115.

2220 ". . . and two [Trochus] Canaliculatus, or bronzed Trochus ibid 33. r. all from *K. George's Sound*, on the *N.W. coast of America* . . . rare."

Calliostoma canaliculatum (Lightfoot, 1786)

Trochus canaliculatus [Lightfoot, 1786], p. 101.
Trochus canaliculatus Martyn, 1784 (nonbinomial).
Trochus doliarius Holten, 1802, p. 67.
Calliostoma canaliculatum (Solander).—Abbott, 1961, p. 63.

The figure cited by Lightfoot for this species is obviously an error for "32." It should be noted that whereas Martyn gave New Zealand as the habitat for this and the previous species, Lightfoot cites the correct locality.

2222 "Three curious and rare species of Solen, viz. . . . Antiquatus, *Pennant*, 46. 25 . . . . ."

Solecurtus (Azorinus) chamasolen (Da Costa, 1778)

Solen cultellus Pennant, 1777, p. 85 (not Linnaeus, 1758).
Solen antiquatus [Lightfoot, 1786], p. 101.
Solen antiquatus Pulteney, 1799, p. 28.

Since Pulteney gives the Solander manuscript as the source of his name, Lightfoot must have derived his use of *antiquatus* from the same source although he does not signify this by the usual letter "S."

2274 "An exceedingly fine specimen of Voluta gravis, S. with its Epidermis on, from the *Straits of Malacca, Martyn, Vol.* III. 917."

Turbinella pyrum (Linnaeus, 1758)

Voluta gravis [Lightfoot, 1786], p. 103.
Voluta gravis Wood, 1818, p. 101.

This is not *T. rapa* Lamarck, 1822 (=*ponderosa* Lightfoot, 1786) as Dall states (1921, p. 131).

2284 ". . . Murex plicatus, or plicated Murex, from *Falkland's Islands, undescribed. Favanne, tab.* 79. *I* . . . ."

Trophon plicatus (Lightfoot, 1786)

Murex plicatus [Lightfoot, 1786], p. 104.
Buccinum laciniatum Martyn, 1784, fig. 42 (nonbinomial).
Murex lamellosus Gmelin, 1791, p. 3536.
Trophon laciniatus Martyn.—Strebel, 1904, p. 199.
Murex plicatus S.—Dall, 1921, p. 99.
Not *Murex plicatus* Gmelin, 1791 (="*Thais*" sp.).
Not *Murex plicatus* Dillwyn, 1817 (=*Coralliophila erosa* (Röding), 1798).

2296 "A fine pair of Buccinum muricatum, *Favanne* 33, x. 3 . . . all rare."

Colubraria muricata (Lightfoot, 1786)

Buccinum muricatum [Lightfoot, 1786], p. 104.
Murex maculosus Gmelin, 1791, p. 3458.
Not *Buccinum muricatum* Schröter, 1805 (=*Hebra horrida* Dunker, 1847).

Shikama (1963, pl. 49, fig. 3) follows Dall (1921, p. 125) in considering this to be the same as *Colubraria obscura* (Reeve, 1844); the latter species, however, is more slender and less strongly sculptured.

2297 ". . . Cardium spinosum, S. . . . figured in *Favanne* 52. A. 2."

Acanthocardia echinatum (Linnaeus, 1758)

Cardium spinosum [Lightfoot, 1786], p. 105.
Cardium spinosum Dillwyn, 1817, p. 115.
Cardium erinaceum Lamarck, 1819, p. 8.
Not *Cardium spinosum* Sowerby, 1805.—Link, 1807 (=*Acanthocardia aculeatum* L., 1758).

2302 "Four fine species of Patella, viz. Gorgonica, *Humphrey's Conch.* 3. 8 . . . ."

Patella barbara Linnaeus, 1758

Patella gorgonica [Lightfoot, 1786], p. 105.

2302 ". . . [Patella] Pulchra, or Beauty, *ibid.* 2. 8 . . . ."

Patella miniata Born, 1778

Patella pulchra [Lightfoot, 1786], p. 105.

2302 ". . . and a young one of [Patella] Oculus hirci, *ibid.* 2. 6."

Patella oculus Born, 1778

Patella oculushirci [Lightfoot, 1786], p. 105.

2315 "A fine specimen of Voluta incrassa, *S. Martyn, Vol.* II- *very rare*, f. 499. 500."

Oliva incrassata (Lightfoot, 1786)

See lot 264.

It will be noticed that the trivial name is here misspelled "*incrassa.*"

2327 "A small but extremely fine pair of Murex fimbriatus, or furbelowed Murex, from *Falkland's Island, Martyn, Vol.* 1. *fig.* 6. c. *Favanne*, 37. H.I."

Trophon geversianus (Pallas, 1774)

Murex fimbriatus [Lightfoot, 1786], p. 106.
Not *Murex fimbriatus* Brocchi, 1814 (=*Fasciolaria* (*Pleuroploca*) sp.—probably needs a new name).
Not *Murex fimbriatus* Lamarck, 1822 (=?*Ocinebra planilirata* Reeve, 1845).

2328 "A large and fine Conus Araneosus, S. or Spider's Web Cone from *Coromandel, very rare. Martyn.* Vol. II. 676."
Conus araneosus [Lightfoot, 1786]

See lot 174.

2230 "*Two extremely curious and rare species of Cypraea*, viz. [error *Pustulata, or orange warted Cowry, from China*, Lister, for 710.62 . . . ."

2330] **Jenneria pustulata** (Lightfoot, 1786)

Cypraea pustulata [Lightfoot, 1786], p. 106.
Cypraea pustulata Lamarck, 1810, p. 101.
Jenneria pustulata (Solander, 1786).—Keen, 1958, p. 333.

2331 "Serpula attrahens or furbelowed Watering-pot. *Humphrey's* Conch. pl. VII [Error for XII] fig. 15. from *Madagascar* . . . very rare.'
Penicillus (Warnea) attrahens (Lightfoot, 1786)

Serpula attrahens [Lightfoot, 1786], p. 106.
Aspergillum vaginiferum Lamarck, 1818, p. 430.
Serpula attrahens S.—Dall, 1921, p. 129.

2481 "A fine Trochus sulcatus, from *New Zealand, Naturforscher, Vol.* IX. *tab.* III. *fig.* 5. 6. *Martyn, Vol.* I. *fig.* 33. [error for 35] r . . . ."
Cookia sulcata (Gmelin, 1791)

Trochus sulcatus Martyn, 1784, fig. 35.
Trochus sulcatus [Lightfoot, 1786], p. 13.
Trochus cookii Gmelin, 1791, p. 3582.
Turbo sulcatus Gmelin, 1791, p. 3592.
Cookia sulcata (Martyn, 1784).—Powell, 1957, p. 90.
Not *Trochus sulcatus* Lamarck, 1804 (=*Astele* sp.—needs new name—Eocene, Paris Basin).

When the name *Turbo sulcatus* Gmelin, 1791 was placed on the "Official List of Specific Names in Zoology" in Opinion 479 (International Commission of Zoological Nomenclature, 1957: p. 372), it was not realized that Lightfoot's name was the first valid taxon for this species after Martyn. It was also overlooked that *Trochus cookii* Gmelin, 1791 is a synonym of *Turbo sulcatus* Gmelin.

2516 "Isognoma rigida, S. from *Pulo Condore, List.* 227, 62. very rare."
Nomen dubium

Because Lister's figure is only an internal view, this name must be considered a nomen dubium.

2550 "Two fine species of Cardium, viz. . . . and Hystrix, *S. Gualt.* 72. B. *both rare.*"

Trachycardium aculeatum (Linnaeus, 1767)

Cardium hystrix [Lightfoot, 1786], p. 116.
Not *Cardium hystrix* Reeve, 1844 (=*Fragum* (*Ctenocardia*) *symbolicum* Iredale, 1929).

2554 "A fine pair of Conus mappa, *S.* from China, *very rare. Knorr.* I. *tab.* 8. 4."

Conus ammiralis Linnaeus, 1758

Conus mappa [Lightfoot, 1786], p. 116.
Not *Conus mappa* Crosse, 1858 (=*C. eldredi* Morrison, 1935).

2961 "A large and very fine variety of Buccinum calcaratum, *S. Gualt.* 31. *F. . . . rare.*"

Melongena (Volema) hippocastanum (Linnaeus, 1758)

Buccinum calcaratum [Lightfoot, 1786], p. 133.
Volema nuxmoschata Röding, 1798, p. 57.
Pyrula hippocastanum Lamarck, 1816, p. 7.
Murex calcaratus Dillwyn, 1817, p. 710.
Pyrula galeodes Lamarck, 1822, p. 144.

Dodge (1957, pp. 137–139) has exhaustively detailed the reasons for the allocation of Linnaeus' name to this species rather than to the species of Muricidae (Thaisinae) to which the Linnean name was given by many later authors.

2965 ". . . Cypraea seriata, (rather a young one of Tigris L.) . . . ."

Cypraea tigris Linnaeus, 1758

Cypraea seriata [Lightfoot, 1786], p. 133.

2965 ". . . [Cypraea] nebulosa, S. (a young one of Mauritiana, L.)."

Cypraea mauritiana Linnaeus, 1758

Cypraea nebulosa [Lightfoot, 1786], p. 133.
Not *C. nebulosa* Gmelin, 1791 (=*C. stercoraria* Linnaeus, 1758).

2967 "Two fine specimens of Strombus truncatus, an undescribed species of L. *showing the different stages of growth,* from the *E. Indies, rare . . . D'Avila, vol.* I, *tab.* 12. 14."

Lambis truncata truncata (Lightfoot, 1786)

Strombus truncatus [Lightfoot, 1786], p. 133.
Strombus bryonia Gmelin, 1791, p. 3520.
Lambis davilae Röding, 1798, p. 66.
Strombus truncatus Dillwyn, 1817, p. 659.
Lambis truncata truncata (Humphrey, 1786).—Abbott, 1961, p. 155.

2983 "Three curious species of Mya, viz. . . . ovalis, *Lister* 146.1 . . ."

Unio ovalis ovalis (Lightfoot, 1786)

Mya ovalis [Lightfoot, 1786], p. 134.
Mya batava Dillwyn, 1823, p. 13 (not Maton and Rackett, 1807.)
Unio cytherea Küster, 1833.
Unio crassa cytherea Küster.—Haas, 1940, p. 129.
Mya ovalis S.—Dall, 1921, p. 128 (in part).
Not *Mya ovalis* Pulteney, 1799 (=*Unio pictorum* Linnaeus, 1758).

A comparison of the figure in Lister, which is accompanied by the words "a Danubio," with various figures and descriptions of the polymorphic species and subspecies of *Unio* occurring in Europe leads me to the conclusion that Lightfoot's name must be used for the subspecies that Haas (1940) called *Unio crassus cytherea* Küster, 1833. Because the name *ovalis* is two years older than *crassus*, the central European, Danubian form becomes the nominate form, and the western European subspecies becomes *Unio ovalis crassus* Retzius. I leave the judgment of the correctness of this assignment to my European colleagues more familiar with this difficult freshwater fauna.

2995 "Patella pulchra, or beauty Limpet, *Humphrey's Conch. pl.* 2. *fig.* 8. from the Cape of Good Hope. . . ."
Patella miniata (Born, 1778)

See lot 2302.

3020 "Voluta virescens, S. an extreme scarce species of the Music kind, from *Guinea—Martyn*, vol. III. fig. 932. 933."
Voluta virescens [Lightfoot, 1786]

See lot 610.

3028 "A large and fine specimen of Placuna Ephippium, S. (Anomia, L.) from *China*—very rare."
Placuna [Lightfoot, 1786]

The "S" signifies that Solander is the author of the combination, but not of the trivial name, whose author is Linnaeus.

3030 ". . . Bulla vesicaria, S. from the *W. Indies, ibid* [*Seba* III. *tab.* 38.], *fig.* 46. 48 . . . *both rare.*"
Hydatina vesicaria (Lightfoot, 1786)
Bulla physis Linnaeus, 1758 (in part).
Bulla vesicaria [Lightfoot, 1786], p. 136.
Hydatina vesicaria Solander.—Abbott, 1954, p. 276.

For a discussion of the status of this species, see Bartsch, 1940, Proc. Biol. Soc. Washington, vol. 53, p. 92.

3039 "A large specimen of Voluta Scafa, S. *in the utmost perfection*, from Guinea . . . *Martyn*, vol. III tab. 70. 764."
Cymbium cymbium (Linnaeus, 1758)

See lot 969.

3040 "A large and fine Pinna rigida, S. *Knorr* II. 26, 1 . . . very rare."
Atrina rigida (Lightfoot, 1786)
Pinna rigida [Lightfoot, 1786], p. 136.
Pinna rigida Dillwyn, 1817, p. 327.
Atrina rigida Solander.—Turner and Rosewater, 1958, p. 312.

3041 "A cluster of Isognoma Perna, S. (ostrea, L.) enveloped in Sponge, from *China*, rare."
Isognomon [Lightfoot, 1786]
See lot 968.

3049 "A large and fine specimen of Tellina marginalis, *S. List.* 387."
Tellina laevigata Linnaeus, 1758
Tellina marginalis [Lightfoot, 1786], p. 137.

3054 "Voluta Haustrum, S. or banded coronated Melon, *very rare*, from *China*, Martyn, III. 781."
Cymbium amphora (Lightfoot, 1786)
See lot 768.

3061 "A very fine specimen of Voluta ancilla, S. from the *Straits of Magellan, extremely scarce, D'Avila, vol.* I. *pl* 8. *fig. s.*"
Adelomelon ancilla (Lightfoot, 1786)
See lot 1873.

3074 ". . . a stone with various specimens of Venus arctica, S. in it, *List.* 426. 427 . . . ."
Hiatella arctica (Linnaeus, 1758)
Venus arctica [Lightfoot, 1786], p. 138.

3091 "A cluster of three, and a single specimen of Ostrea purpurea, S. from *New Holland, very rare—Born. mus. caes. Tab.* 6. *fig.* 11. 12."
Ostrea cucullata Born, 1778
Ostrea purpurea [Lightfoot, 1786], p. 139.

3093 "A large and fine Buccinum monodon, S. or Unicorn, from *Terra del Fuego*, Martyn, vol. I. fig. 10 e . . . ."
Acanthina monodon (Pallas, 1774)
See lot 372.

3117 "A large fine pair of Patella oculus hirci, or Goat's-eye Limpet, *one of them in its native state, the other polished*, from the *Cape of Good Hope* . . . Humphrey's Conch. 2. 6."
Patella oculus Born, 1778
See lot 2302.

3119 "A large and fine specimen of Placuna placenta, S. (Anomia, L.) or the Window Shell, from *China* . . . rare."
Placuna [Lightfoot, 1786]
See lot 3028.

3142 "A fine pair of Voluta muricata, *S. one with the epidermis on, Lister*, 810. 19. from the *W. Indies* . . . rare."
Vasum muricatum (Born, 1778)
Voluta muricata [Lightfoot, 1786], p. 142.

3158 "A pair of large and fine Buccinum taurinum, *S. Lister*, 841. 69. from *China* . . . *very rare.*"
Terebra taurinum (Lightfoot, 1786)
Buccinum taurinum [Lightfoot, 1786], p. 142.
Epitonium feldmanni Röding, 1798, p. 94.
Terebra flammea Lamarck, 1822, p. 284.
Terebra taurinum Solander.—Abbott, 1954, p. 265.

3161 "A fine specimen of Voluta elongata, S. or Midas's ear Land Snail, from *New Caledonia, very rare* . . . *Martyn, vol.* I. *fig.* 25. n."
Placostylus elongatus (Lightfoot, 1786)
See lot 707.

3235 ". . . a fine specimen of Turbo cornutus, a new species allied to Chrysostomus, L. but with a silver mouth, *D'Avila. Vol.* 1. *pl.* 5. *fig.* I."
Turbo (Batillus) cornutus [Lightfoot], 1786
Turbo cornutus [Lightfoot, 1786], p. 147.
Turbo cornutus Gmelin, 1791, p. 3593.
Turbo cornutus Solander.—Shikama, 1963, pl. 12.

3307 "A fine young specimen of Strombus truncatus *D'Avila, vol.* I. *tab.* 12 . . . ."
Lambis truncata truncata (Lightfoot, 1786)
See lot 2967.

3356 "Four curious species of Buccina, viz. . . . one of Iris, *S. Martyn, vol.* I. *fig.* 2. *b.* . . ."
Latirus iris (Lightfoot, 1786)
See lot 30.

3384 "*Patella Auricularia*, an extremely rare species, from *Amboyna* . . . *Rumph.* 40. *N.*"
Dolabella auricularia (Lightfoot, 1786)
Scapula Martyn, 1784, fig. 99 (nonbinomial).
Patella auricularia [Lightfoot, 1786], p. 154.
Dolabella callosa Lamarck, 1801, p. 62.
Dolabella rumphii Blainville, 1819, p. 395.
Dolabella auricularia (Solander).—Kira, 1959, p. 102.

3388 "A fine pair of Helix ovipara, *List.* 1055. 1. from Surinam . . . ."
Strophocheilus ovatus (Müller, 1774)
Helix ovipara [Lightfoot, 1786], p. 155.

3389 "Two fine species of Cardium, viz. . . . impressum, *S. Born. Mus. tab. 2. fig.* 15, 16. both from *China* and rare."
Corculum impressum (Lightfoot, 1786)

Cardium impressum [Lightfoot, 1786], p. 155.
Cardium roseum Gmelin, 1791, p. 3245.
Corculum humanum Röding, 1798, p. 189.
Cardium junoniae Lamarck, 1816, p. 17.
Corculum impressum (Solander).—Shikama, 1964, p. 74.
Not *Cardium impressum* Deshayes, 1842 (=*Protocardia* sp., Cretaceous, France).

3494 [error for 3394] ". . . Trochus punctulatus of *Martyn, vol.* I. *fig.* 36. *r.* . . ."
Calliostoma (Mauriella) punctulatum Martyn, 1784

Trochus punctulatus [Lightfoot, 1786], p. 155.
Trochus diaphanus Gmelin, 1791, p. 3580.
Not *Trochus punctulatus* Gmelin, 1791 (=*?Cantharidus turriculum* Phil., 1855).

3494 ". . . [Trochus] *granosus, ibid.* 37. r. . . ."
Modelia granosa (Martyn, 1784)

See lot 1942.

Both of the above two Martyn names were validated by the International Commission of Zoological Nomenclature in Opinion 479 (1957).

3411 ". . . and two fine varieties of [Conus] nocturnus, *S. Martyn,* II. 687. and 688. *all from China, and rare.*"
Conus nocturnus [Lightfoot, 1786]

Conus nocturnus [Lightfoot, 1786], p. 156.
Conus nocturnus Hwass, 1792, p. 611.
Conus nocturnus Solander.—Tomlin, 1937, p. 281.
Conus nocturnus [Lightfoot].—Kohn, 1963, p. 162.

3458 "A most beautiful variety of Mytilus pictus, *S.* or painted Muscle, bright green, waved with brown, from the *Mediterranean . . . rare. Knorr.* IV. *tab.* 15. *fig.* 5."
Perna picta (Born, 1778)

Mytilus pictus [Lightfoot, 1786], p. 158.

Knorr's figure is the only illustration cited by Born (1778, pp. 111–112) for his *Mytilus pictus.* It is also listed by Gmelin, but with a question mark, under his *Mytilus afer* (1791, p. 3358), which is a new name for *Mytilus pictus* Born.

Dall believes this to be the same as *Mytilus ungulatus* Linnaeus, which name, however, seems to have been based on an abnormal specimen of *Mytilus edulis* as Dodge (1952, pp. 214–215) has stated. Lamy (1936, p. 130) places *Mytilus pictus* Born in the synonymy of *M. perna* Linnaeus, but for the present I maintain it as a distinct species although it may turn out to be a subspecies or even ecological form of the latter.

3487 "A large and fine violet Solen, from China . . . extremely rare. Solen rostratus, *S. Valentyn Bivalves*, no. 5."
Hiatula diphos (Linnaeus, 1771)

Solen rostratus [Lightfoot], 1786, p. 160.
Solen rostratus Lamarck, 1818, p. 456.

It has been quite generally overlooked that *Hiatula* Modeer, 1793, is an earlier name for *Soletellina* Blainville, 1824. H. and A. Adams (1856, p. 392) used it correctly in place of *Soletellina*, as did Stoliczka (1870, p. 114) and Tryon (1884, p. 167). Stoliczka (1870) designated *Solen diphos* Linnaeus as the type. Thiele (1934, p. 909) thought it was preoccupied by *Hiatula* Martini, 1774, which is, however, an invalid name. Winckworth (1935, p. 322) in discussing Modeer's genera was unaware of Stoliczka's action and designated *Mya truncata* Linnaeus as type, hoping thereby to bury *Hiatula* in the synonymy of *Mya*.

Although *Hiatula* (as *Soletellina*) has commonly been considered a subgenus of *Sanguinolaria* Lamarck, 1799, I feel that the differences between these two groups in the nature of the hinge, pallial sinus, and general shape are of sufficient magnitude to justify their being considered distinct genera.

3491 "A large and fine specimen of Conus fuscatus, S. or bastard Imperial Crown, from *China, very rare . . . Martyn, vol.* II. *fig.* 693.
Conus imperialis Linnaeus, 1758

Conus fuscatus Born, 1778, p. 126.
Conus fuscatus [Lightfoot, 1786], p. 160.

3553 "Two specimens of a very uncommon species of terrestrial Snail, nearly allied to Helix Ovipara, *List.* 1055. 1. *the country unknown.*"
Strophocheilus ovatus (Müller, 1774)

See lot 3388.

3561 "A very fine specimen of Bulla Zonata, *S.* . . . . *Born. Mus. Caes. tab.* 9. *fig.* 1."
Hydatina zonata (Lightfoot, 1786)

Bulla amplustre Born, 1780, p. 204 (not Linnaeus, 1758).
Bulla zonata [Lightfoot, 1786], p. 164.
Bulla velum Gmelin, 1791, p. 3433.
Bulla fasciata Bruguiere, 1792, p. 380.
Hydatina (*Hydatoria*) *zonata* Solander.—Habe, 1950, p. 18.
Not *Bulla zonata* Turton, 1834 (=*Scaphander lignarius* L., 1758, young).

The shell figured by Kira (1959, p. 104, pl. 39, fig. 15) as *H. zonata*, lacks the white band, and may be a distinct species (?*H. inflata* Dunker, 1877).

3624 "Seven curious specimens of Solens, viz. a small one of Rostratus, *Valentyn. Bivalves*, no. 5 . . . ."
Hiatula diphos (Linnaeus, 1771)
See lot 3487.

3655 "Two very fine specimens of Strombus truncatus, *showing the different stages of growth*, from China, *very rare—D'Avila, vol.* I. *pl.* 12 and 14."
Lambis truncata truncata (Lightfoot, 1786)
See lot 2967.

3696 "*A very fine pair of Voluta Incrassata, S.* extremely scarce . . . Martyn, vol. II. 499. 500."
Oliva incrassata (Lightfoot, 1786)
See lot 2315.

3711 "A large and complete specimen of Voluta Nobilis, *S.* from *China, extremely scarce* . . . Martyn, vol. III. *fig.* 775. 776."
Aulica nobilis (Lightfoot, 1786)
See lot 89.

3734 "A large and very perfect specimen of Argonauta nodosa, S. or tuberculated paper Nautilus, from the *Cape of Good Hope, very rare*, Rum. 18. 1."
Argonauta nodosa [Lightfoot, 1786]
See lot 2120.

3741 "Two curious varieties of Ostrea purpurea, S. from New Holland, and an odd valve of the same species, from *China, very scarce* . . . *Born. mus. caes. pl.* 6. fig. 11. 12."
Ostrea cucullata Boon, 1778
See lot 3091.

3744 "A very fine and large specimen of Placuna Ephippium, *S.* (Anomia, *L.*) or the Saddle Shell, *very rare*, from China."
Placuna [Lightfoot, 1786]
See lot 3028.

3745 "A very fine variety of Helix Ovipara, *Lister, tab.* 23. having a white margin to the mouth, with three of its eggs, and a young shell as taken out of the Egg from St. *Vincents* . . . *extremely curious* and *very rare*."
Strophocheilus oblongus (Müller, 1774)
See lot 1930.

3748 "A very perfect specimen of Argonauta hians, S. a scarce variety of the brown paper Nautilus, from *China, very rare* . . . Rum. 18. B."
Argonauta hians [Lightfoot, 1786]
See lot 1055.

3751 "A fine specimen of Voluta virescens, S. or brindled Music, from *Guinea, very rare* . . . Martin, vol. III. *fig.* 932. 933."
Voluta virescens [Lightfoot, 1786]
See lot 610.

3758 "A very fine Bulla Zonata, from *China, extremely rare, enclosed in a small glass case* . . . *Born, mus. caes. tab.* 9. *fig.* 1."
Hydatina zonata (Lightfoot, 1786)
See lot 3561.

3761 "A large and fine specimen of Venus nimbosa, S. from *Florida, very rare* . . . *Favanne, pl.* 49, *fig.* I."
Macrocallista nimbosa (Lightfoot, 1786)

Venus nimbosa [Lightfoot, 1786], p. 175.
Venus gigantea Gmelin, 1791, p. 3282.
Macrocallista nimbosa Solander.—Clench, 1942, p. 5.

3794 "Nine curious and rare species of Helix, among which are . . . insignita. *Lister*, 67, 68 . . . *the last undescribed.*"
Carocolus marginella (Gmelin) subsp.

Helix insignita [Lightfoot, 1786], p. 176 [nomen oblitum].

3798 "A very fine specimen of Ostraea purpurea, S. rich in colour, from *New Holland, exceedingly scarce. Born. mus. caes. tab.* 6. *fig.* 11, 12."
Ostrea cucullata Born, 1778
See lot 3091.

3802 "A very fine specimen of Helix undata, a carinated umbilicated Land Shell, the Country unknown. Lister, 76. Favanne, tab. 63. *fig.* G. 3."
Solaropsis undata (Lightfoot, 1786)

Helix undata [Lightfoot], 1786, p. 177.
Helix pellis-serpentis Gmelin, 1791, p. 3620.
Helix undata.—Dall, 1921, p. 99 (in part).
Not *Helix undata* Gmelin, 1791 (a nomen dubium, possibly young *Cochlitoma* sp.).

I am restricting Lightfoot's name to Lister's figure, since the figures in Favanne look to me more like *S. gibboni* Pfeiffer. The replacement of Gmelin's name by *undata* is more readily acceptable since Pilsbry

in his "Manual of Conchology" (1889, p. 178) gave the name *pellis-serpentis* erroneously to the species with two deep pits in the last whorl, which must bear the name *S. constrictor* Hupe, 1853. Dall has identified Lightfoot's *undata* with *S. brasiliana* Deshayes, 1832.

3817 "A large and fine specimen of Trochus Onustus, or the Carrier, from *Guadalupe, very rare. Favanne* 12. C. 1. 2."
Xenophora conchyliophora (Born, 1780)
See lot 31.

3825 "A very fine specimen of Cardium protrusum, S. a curious variety of the Venus's Heart Cockle, from *China, very rare. Lister*, 319. 156."
Corculum impressum (Lightfoot, 1786)

Cardium protrusum [Lightfoot, 1786], p. 178.
See lot 3389.

3828 "A large and very fine Turbo undulatus, or waved Emerald Turbo, extremely scarce, from *Van Dieman's Land, New Holland. Martyn, Vol.* 1. *fig.* 29, *P.*"
Subninella undulata (Lightfoot, 1786)
See lot 408.

3830 "A very fine specimen of Patella umbraculum or Umbrella Limpet, from *China, extremely scarce. Humphrey's Conch. pl.* 5, *fig.* 5. *which was taken from this shell.*"
Umbraculum umbraculum (Lightfoot, 1786)

Patella umbraculum [Lightfoot, 1786], p. 178.
Patella sinica Gmelin, 1791, p. 3705.
Patella umbellata Gmelin, 1791, p. 3720.
Patella umbracula Röding, 1798, p. 6.
Umbraculum umbraculum (Humphrey).—Kira, 1959, p. 103.

3844 "A very perfect specimen of Conus pulcher, an undescribed species from the *Coast of Guinea . . . extremely rare*, List. 772."
Conus pulcher [Lightfoot, 1786]

Conus pulcher [Lightfoot, 1786], p. 179.
Conus leoninus Gmelin, 1791, p. 3386 (not Lightfoot, 1786).
Conus papilionaceus Hwass, 1792, p. 665.
Conus pulcher [?Humphrey].—Tomlin, 1937, p. 298.
Not *Conus pulcher* A. Ad., 1854.

3447 [Error for 3847] "A large and fine Anomia Ephippiun, L. (placuna, S.) from *China . . . extremely rare.*"
Placuna [Lightfoot, 1786]
See lot 1315.

3853 "A very fine specimen of Patella pulchra, *Humphrey's Conch.* pl. 2. fig. 8 . . . the first is a native of the *Cape of Good Hope.* . . ."
Patella miniata Born, 1778

See lot 2302.

3866 "Two fine specimens of a curious and beautiful variety of Conus undulatus, *S. extremely scarce*, Gualt. 25. I."
Conus textile Linnaeus, 1758

Conus undulatus [Lightfoot, 1786], p. 180.
Not *Conus undulatus* Sby., 1858 (=?*C. mucronatus* Reeve, 1843).

3874 "A large and beautiful specimen of Voluta Amphora, S. or clouded Aethiopian Crown. Martyn, vol. III. fig. 780."
Cymbium amphora (Lightfoot, 1786)

See lot 708.

3902 "A very fine specimen of Voluta Cithara, S. having its Epidermis on, from *Japan, extremely scarce.*—Seba III. 65. 1, 2."
Cymbium (Melo) amphora (Lightfoot, 1786)

See lot 2122.

3906 "Nautilus scrobiculatus, S. or great umbilicated Nautilus, from *New Guinea, very rare* . . . Lister, 552. 4 . . . Knorr IV. 22. 1."
Nautilus scrobiculatus [Lightfoot, 1786]

Nautilus scrobiculatus [Lightfoot, 1786], p. 182.
Nautilus scrobiculatus Dillwyn, 1817, p. 339.
Nautilus umbilicatus Lamarck, 1822, p. 633 (not Linnaeus, 1758).
Nautilus scrobiculatus Solander.—Shikama, 1964, p. 101.

3911 "A cluster of Balanus Tulipa, Ellis. Philosoph. Trans. fig. 10, partly over-run by a Gorgonia pretiosa, *very curious and rare*, from *Sicily.*"
Balanus tulipiformis Darwin, 1854

Balanus tulipa [Lightfoot, 1786], p. 183.
Balanus tulipa Poli, 1791, p. 24.
Not *Lepas tulipa* Müller, 1776 (=*B. tintinnabulum* L., 1758).

3913 "A capital specimen of *Voluta Imperialis*, S. or Great horned Wild Music, from *Luconia, extremely scarce* . . . Martin, vol. IV. 934. 935."
Aulica imperialis (Lightfoot, 1786)

Voluta imperialis [Lightfoot, 1786], p. 183.
Voluta imperialis Lamarck, 1811, p. 62.
Aulica imperialis Solander.—Abbott, 1962, p. 98.

3924 "A large and finely coloured specimen of Helix Undata, an undescribed species of Land Snail, from whence unknown . . . *Favanne., pl.* 63, *fig. G.* 3."
Solaropsis undata (Lightfoot, 1786)

See lot 3802.

3926 "A large and fine specimen of *Voluta Nobilis, S.* an extremely rare, and very beautiful shell of the Wild Music kind, from China. . . . Lister, 799. 6 . . . Martin III. 774."
Aulica nobilis (Lightfoot, 1786)

See lot 89.

3939 "A fine Serpula Tortuosa, a new and undescribed Species, the country unknown, *Humph. Conch.* pl. 11, fig. 4. unique."
Vermicularia tortuosa (Lightfoot, 1786)

Serpula tortuosa [Lightfoot, 1786], p. 184.
Vermetus costalis 'Rousseau' Chenu, 1844, Vermetus, pl. 3.
Vermetus (*Vermicularia*) *tortuosus* Solander.—Tryon, 1885, p. 186.

3947 "A fine specimen of Arca Labiata, S. or valved Ark, called by the French, Coquelochon de Moine, *D'Avila*, vol. I. *pl.* 18. its country unknown."
Cucullaea labiata (Lightfoot, 1786)

Arca labiata [Lightfoot, 1786], p. 185.
Arca concamera Bruguiere, 1789, p. 102.
Arca cucullus Gmelin, 1791, p. 3311.
Cucullaea auriculifera Lamarck, 1801, p. 116.
Arca concamerata Dillwyn, 1817, p. 232.
Cucullaea labiata (Solander).—Shikama, 1964, pl. 20, fig. 2.
Not *Arca labiata* Sowerby, 1833 (=*Scapharca perlabiata* Grant and Gale, 1931).

3955 "A very large and fine specimen of Serpula Gigantea, an undescribed Species, from *Luconia*, 21 inches long, *extremely rare* . . . Seba III. 94. The largest figure."
Kuphus polythalamia Linnaeus, 1766

See lot 97.

3965 "A fine specimen of Voluta Arausiaca, S. or Prince of Orange's Flag Musick from *Amboyna, very rare* . . . *Rum* 37. 2."
Harpulina arausiaca (Lightfoot, 1786)

See lot 611.

3370 [Error for 3970] "A fine pair of Helix Alba a terrestrial Shell from the *E. Indies*, one of them an exceeding great variety, being left handed, or turning the contrary way.—*Lister tab.* 33. 32. and 46.—Favanne, 63. E."
Nomen dubium

Not *Helix alba* Bouillet, 1835.

Each of the three figures cited represents a different species, and the crudeness of their delineation forbids any exact identification.

3973 "A very fine Helix erubescens, a curious non-descript Land Shell, the country unknown . . . Lister 24. 22."
Strophocheilus pudicus (Müller, 1774)

Helix erubescens [Lightfoot, 1786], p. 187.

Bequaert, in his study of the family Strophocheilidae (1948, p. 30) is probably correct in assigning this name to the synonymy of Müller's species.

3982 "A very fine Trochus tectus, *the only perfect specimen known*, from the *Island of All Saints*, in the *West Indies. A. bad specimen is figured in Lister*, 628. 14 . . . 'tis undescribed."
Astraea tecta (Lightfoot, 1786)

Trochus tectus [Lightfoot, 1786], p. 187.
Trochus imbricatus Gmelin, 1791, p. 3581.
Astraea tecta tecta Solander, 1786.—Abbott, 1958, p. 30.
Not *Trochus tectum* Gmelin, 1791 (=*Modulus tectum* (Gmelin), 1791).

As Abbott has pointed out (1958), Lightfoot's name does not preoccupy Gmelin's *Trochus tectum*, since the latter trivial name is a noun (Latin *tectum*=roof) in apposition to the genus, while Lightfoot used the adjective *tectus*(=covered or tiled).

3983 "A very fine specimen of Patella Auricularia, figured *Rumph. tab.* 40. fig. N. and called by that author an operculum, it comes from *China*, and is *extremely scarce*."
Dolabella auricularia (Lightfoot, 1786)

See lot 3384.

4000 "A very large and fine specimen of Madrepora Agnus, or Lamb Madrepora from *New Holland* . . . *extremely scarce*. *Seba vol.* III. *tab.* CXI. *fig.* 6."
Polyphyllia talpina (Lamarck, 1801)

Madrepora agnus [Lightfoot, 1786], p. 188 [nomen oblitum].
Fungia talpina Lamarck, 1801, p. 370.
Fungia talpa Lamarck, 1816b, p. 237.
Polyphyllia talpina.—Thiel, 1932, p. 89.

4001 "A large and perfect specimen of Murex Tribulus, L. var. Pecten, or the Venus's Comb, from *China*, *exceedingly scarce*. Rum. 26. 3."
Murex pecten [Lightfoot, 1786]

Murex tribulus var. *pecten* [Lightfoot, 1786], p. 188.
Murex histrix Röding, 1798, p. 145 (not *Murex hystrix* Linnaeus, 1758).

Aranea gracilis Perry, 1810, pl. 47 (not *Murex gracilis* Montagu, 1803).
Aranea triremis Perry, 1811, pl. 45, no. 3.
Murex tenuispina Lamarck, 1822, p. 158.
Murex triremis Perry.—Abbott, 1962, p. 71
Not *Murex pecten* Montfort, 1811 (=*M. ternispina* Lam., 1822).

Any regret over the loss of the long-well-known name *Murex tenuispina* Lamarck is tempered by the fact that Perry's name *triremis* had priority and has been used by recent workers for this species. *Murex ternispina* Lamarck is once more available since Montfort's earlier name for this species is preoccupied by Lightfoot's name; Kira (1962, p. 63) has so used *ternispina*.

4002 "A very large and fine specimen of Echinus maximus, *extremely scarce, the country unknown. Seba* III, *pl.* 14. *fig.* 5. 6. and *Favanne, pl.* 58. *fig.* A. 2."
Plagiobrissus grandis (Gmelin, 1788)

Echinus maximus [Lightfoot, 1786], p. 188 [nomen oblitum].
Echinus grandis Gmelin, 1788, p. 3200.
Spatangus pectoralis Lamarck, 1816b, p. 29.
Plagiobrissus grandis (Gmelin).—Mortensen, 1951, p. 496.

H. L. Clark (1917, p. 207) had pointed out that Lamarck's *pectoralis*, long in use, must yield to Gmelin's earlier name.

4017 "A fine specimen of Conus Architalassus, *S.* a curious granulated variety of the High Admiral, *extremely scarce*, from *Amboyna. Argenv. Suppl. tab.* 1. *fig.* M. N. *Martyn* II. *tab min.* 26. *fig.* 1. 2. *page* 214."
Conus ammiralis Linnaeus, 1758

Conus architalassus [Lightfoot, 1786], p. 189.
Conus ammiralis coronatus Gmelin, 1791, p. 3389.
Conus architalassus Hwass, 1792, p. 659.

I follow Kohn (1964, p. 161) in placing this name in the synonymy of *ammiralis* L.

4022 "A very perfect specimen of Strombus sinuatus, or scollop-winged Strombus, *extremely rare. Seba.* III. *pl.* 62. *fig.* 3. Favanne 22. A. 2."
Strombus sinuatus [Lightfoot, 1786]

Strombus sinuatus [Lightfoot, 1786], p. 189.
Lambis lobata Röding, 1798, p. 65.
Strombus laciniatus Dillwyn, 1817, p. 663.
Strombus sinuatus Humphrey, 1786.—Abbott, 1960, p. 60.
Not *Strombus sinuatus* Perry, 1811 (=*Lambis scorpius* Linnaeus, 1758).

4023 "A very fine reversed Voluta ponderosa, *S.* or heavy Volute, *extremely scarce*, from the *East Indies. A direct one is figured in Favanne, pl.* 35. *fig.* I."
Turbinella ponderosa (Lightfoot, 1786)
See lot 566.

4030 "A very perfect specimen of that beautiful species, the Voluta Cithara S. from *Japan* . . . *extremely scarce Seba* III. *tab.* 65. 1. 2."
Cymbium (Melo) amphora (Lightfoot, 1786)
See lot 2122.

Systematic List

The following list is arranged systematically by phyla, classes, and families. All validly proposed Lightfoot names are included, followed by the modern name of the taxon as I have determined it. In some instances the latter is accompanied by one or two synonyms in current use.

MOLLUSCA-GASTROPODA

Fissurellidae

macroschisma, Patella=Macroschisma sp.

Patellidae

fungoides, Patella=Patella barbara Linnaeus
gorgonica, P.=Patella barbara Linnaeus
mytiliformis, P.=Nacella mytilina (Helbling)
oculus hirci, P.=Patella oculus Born
pulchra, P.=Patella miniata Born

Trochidae

annulatus, Trochus=Calliostoma annulatum (Lightfoot)
canaliculatus, T.=C. canaliculatum (Lightfoot)
punctulatus, T.=C. (Mauriella) punctulatum (Lightfoot)

Turbinidae

cornutus, Turbo=Turbo (Batillus) cornutus [Lightfoot]
granosus, Trochus=Modelia granosa (Lightfoot)
solaris, Trochus=Astraea imperialis (Gmelin)
sulcatus, Trochus=Cookia sulcata (Lightfoot)
tectus, Turbo=Astraea (Astralium) tecta (Lightfoot)

Pilidae

plicata, Helix=Pila urceus (Müller)

Vermetidae

tortuosa, Serpula=Vermicularia tortuosa (Lightfoot)

Capulidae

calyptra, Patella=Capulus sp.

Xenophoridae

onustus, Trochus=Xenophora conchyliophora (Born)

Strombidae

persicus, Strombus fusus=Tibia insulaechorab (Röding)
tricornis, Strombus=Strombus tricornis [Lightfoot]
truncatus, Strombus=Lambis truncata (Lightfoot)

Cypraeidae

nebulosa, Cypraea=Cypraea mauritiana Linnaeus
pantherina, Cypraea=Cypraea pantherina [Lightfoot]
pustulata, Cypraea=Jenneria pustulata (Lightfoot)
seriata, Cypraea=Cypraea tigris Linnaeus

Cymatiidae

muricatum, Buccinum=Colubraria muricata (Lightfoot)
maculosa (Gmelin)
pustulosum, Buccinum=Argobuccinum pustulosum (Lightfoot)
argus (Gmelin)

Muricidae-Muricinae

elongatus, Murex=Pterynotus (Marchia) elongatus (Lightfoot)
clavus (Kiener)
pecten, Murex tribulus=Murex pecten [Lightfoot]
triremis Perry
tenuispina Lamarck

Muricidae-Thaisinae

monodon, Buccinum=Acanthina monodon (Pallas)

Muricidae-Trophoninae

fimbriatus, Murex=Trophon geversianus (Pallas)
plicatus, Murex=Trophon plicatus (Lightfoot)
laciniatus (Martyn)

Melongenidae

calcaratum, Buccinum=Melongena (Volema) hippocastanum (Linnaeus)

Fasciolariidae

iris, Buccinum=Latirus iris (Lightfoot)

Olividaee

incrassata, Voluta=Oliva incrassata (Lightfoot)

Mitridae

filosa, Voluta=Mitra (Cancilla) filaris (Linnaeus)
incompta, Voluta=Mitra terebralis Lamarck

Turbinellidae

angulata, Voluta=Turbinella angulata (Lightfoot)
gravis, Voluta=Turbinella pyrum (Linnaeus)
ponderosa, Voluta=Turbinella ponderosa (Lightfoot)
rapa Lamarck

Vasidae

muricata, Voluta=Vasum muricatum (Born)

Harpidae

testudo, Buccinum=Harpa sp.

Volutidae-Volutinae

virescens, Voluta=Voluta virescens [Lightfoot]

Volutidae-Cymbiinae

amphora, Voluta=Melo amphora (Lightfoot)
cithara, Voluta=Melo amphora (Lightfoot)
haustrum, Voluta=Melo amphora (Lightfoot)
imperialis, Voluta=Aulica imperialis (Lightfoot)
melo, Voluta=Melo melo (Lightfoot)
nobilis, Voluta=Volutocorona nobilis (Lightfoot)
scapha (Gmelin)
pepo, Voluta=Cymbium pepo (Lightfoot)
scafa, Voluta=Cymbium cymbium (Linnaeus)

Volutidae-Zidoninae

arausiaca, Voluta=Harpulina arausiaca (Lightfoot)
ancilla, Voluta=Adelomelon ancilla (Lightfoot)

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Conidae

araneosus, Conus=Conus araneosus [Lightfoot]
architalassus, Conus=Conus ammiralis Linnaeus
augur, Conus=Conus augur [Lightfoot]
fuscatus, Conus=Conus imperialis Linnaeus
leoninus, Conus=Conus striatus Linnaeus
mappa, Conus=Conus ammiralis Linnaeus
nocturnus, Conus=Conus nocturnus [Lightfoot]
pulcher, Conus=Conus pulcher [Lightfoot]
papilionaceus Hwass
quercinus, Conus=Conus quercinus [Lightfoot]
undulatus, Conus=Conus textile Linnaeus

Terebridae

taurinum, Buccinum=Terebra taurinum (Lightfoot)

Aplysiidae

auricularia, Patella=Dolabella auricularia (Lightfoot)
callosa Lamarck

Umbraculidae

umbraculum, Patella=Umbraculum umbraculum (Lightfoot)
sinicum (Gmelin)

Hydatinidae

vesicaria, Bulla=Hydatina vesicaria (Lightfoot)
zonata, Bulla=Hydatina zonata (Lightfoot)
velum (Gmelin)

Bulimulidae

elongata, Voluta=Placostylus elongatus (Lightfoot)
fibratus (Martyn)

Strophocheilidae

erubescens, Helix=Strophocheilus pudicus (Müller)
ovipara, Helix=Strophocheilus oblongus (Müller)

Sagdidae

alveolatus, Trochus=Sagda epistylium (Müller)

Camaenidae

insignita, Helix=Caracolus sp.
otis, Helix=Lampadion otis (Lightfoot)
undata, Helix=Solaropsis undata (Lightfoot)

Helminthoglyptidae-Cepolinae

vitellus, Helix=Polymita picta (Born)

Helicidae

alba, Helix=nomen dubium

MOLLUSCA-BIVALVIA

Arcidae

fusca, Arca=Arca sp.
nodulosa, Arca=Anadara granosa (Linnaeus)

Cucullaeidae

labiata, Arca=Cucullaea labiata (Lightfoot)

Mytilidae

castaneus, Mytilus=Modiolus vagina Lamarck
pictus, Mytilus=Perna picta (Born)

Pinnidae

rigida, Pinna=Atrina rigida (Lightfoot)

Isognomonidae

Isognoma=Isognomon [Lightfoot]
Isognomon [Lightfoot]
rigida, Isognoma=Isognomon sp.

Anomiidae

Placuna [Lightfoot]

Ostreidae

purpurata, Ostrea=Ostrea cucullata (Born)

Unionidae

complanata, Mya=Elliptio complanatus (Lightfoot)
ovalis, Mya=Unio ovalis (Lightfoot)
crassa cytherea Küster

Chamidae

pannosus, Chama lazarus=Chama lazarus Linnaeus

Cardiidae

hystrix, Cardium=Trachycardium aculeatum (Linnaeus)
impressum, Cardium=Corculum impressum (Lightfoot)
humanum Röding
protrusum, Cardium=Corculum impressum (Lightfoot)
robustum, Cardium=Dinocardium robustum (Lightfoot)
spinosum, Cardium=Acanthocardia echinatum (Linnaeus)

Solenidae

pallidus, Solen=Solen sp.

Tellinidae

marginalis, Tellina=Tellina laevigata Linnaeus

Garidae

cruenta, Tellina=Sanguinolaria cruenta (Lightfoot)
operculata (Gmelin)
rostratus, Solen=Hiatula diphos (Linnaeus)
Soletellina diphos (L.)

Solecurtidae

antiquatus, Solen=Solecurtus (Azorinus) chamasolen (Da Costa)
plebeius, Solen=Tagelus plebeius (Lightfoot)

Veneridae

nimbosa, Venus=Macrocallista nimbosa (Lightfoot)
punctata, Venus=Meretrix meretrix (Linnaeus)

Myidae

gigas, Mya=Panope glycymeris (Born)

Hiatellidae

arctica, Venus=Hiatella arctica (Linnaeus)

Teredinidae

gigantea, Serpula=Kuphus polythalamia (Linnaeus)

Clavagellidae

attrahens, Serpula=Penicillus (Warnea) attrahens (Lightfoot)
vaginiferum Lamarck

MOLLUSCA-CEPHALOPODA

Argonautidae

hians, Argonauta=Argonauta hians [Lightfoot]
navicula, Argonauta=Argonauta sp.
nodosa, Argonauta=Argonauta nodosa [Lightfoot]

Nautilidae

scrobiculatus, Nautilus=Nautilus scrobiculatus [Lightfoot]

COELENTERATA-ANTHOZOA

Fungiidae

agnus, Madrepora=Polyphyllia talpina (Lamarck)

BRACHIOPODA-INARTICULATA

Lingulidae

lingua, Mytilus=Lingula lingua (Lightfoot)
anatina Lamarck

ECHINODERMATA-ECHINOIDEA

Brissidae

maximus, Echinus=Plagiobrissus grandis (Gmelin)

Echinometridae

anemonoides, Echinus=Podophora atrata (Linnaeus)

ARTHROPODA-CRUSTACEA-CIRRIPEDIA

Lepadidae

cornucopiae, Lepas=Mitella cornucopiae (Lightfoot)
pollicipes (Gmelin)
vittata, Lepas=Conchoderma virgata (Spengler)

Balanidae

ponderosus, Balanus=Tetraclita squamosa stalactifera (Lamarck)
pyramidalis, Balanus=Balanus tintinnabulum (Linnaeus)
tulipa, Balanus=Balanus tulipiformis (Darwin)

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